

5943

U. S. COAST & GEODETIC SURVEY
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FEB 25 1936
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Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

WIRE DRAG
~~Topographic~~ } Sheet No. 5
~~Hydrographic~~

State California

LOCALITY

California Coast
Cape San Martin to ~~One Mile South~~ *Mill Creek*
~~Of Rockland Landing~~

193 5

CHIEF OF PARTY

F. H. Hardy, H. & G. E.

5943

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WIRE DRAG
~~HYDROGRAPHIC~~ TITLE SHEET

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

FEB 25 1936

REG. NO.

Acc. No.

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 5 **H5943**

REGISTER NO.

State California

General locality California Coast
Mill Creek

Locality Cape San Martin to ~~One Mile~~ South of Rockland Landing

Scale 1:10,000 Date of survey Aug. 5 - Aug. 10, 1935

Vessel Chartered Launches FLORENCE (Guide Launch); POINT REYES (End Launch)

Chief of Party F. H. Hardy

Surveyed by G. C. Jones

Protracted by C. A. Kester

Soundings penciled by C. J. Beyma

Soundings in fathoms ~~feet~~ Drag Depths in Feet

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by C. J. Beyma

Inked by C. J. Beyma

Verified by *James Cornick*

Instructions dated May 5, 1935

Remarks: Dual Control Wire Drag, Positions by Visual Fixes.

DESCRIPTIVE REPORT
to accompany
Wire Drag Sheet Field No. 5
Project H.T. 206
Coast of California
U.S.C. & G.S.S. GUIDE
1935

INSTRUCTIONS: Instructions for the wire drag work on this sheet were authorized by telegram dated May 5, 1935, to continue wire drag work as per instructions of May 31, 1934. ✓

CHARACTER OF WORK: This work includes that portion from Cape San Martin to one mile south of Rockland Landing, and from approximately one-third mile offshore (in general along the kelp line) to approximately one and a half miles offshore. ✓

The area of the work on this sheet is 11 square statute miles. ✓

The scale of this sheet is 1:10,000.

The position interval was usually five minutes, with supplemental positions at radical changes of course and speed.

The effective depth range is from 26 to 79 feet.

CONTROL: Control for the wire drag on this sheet was by means of visual fixes. ✓

Dual control was used for all this work.

Control consisted of hydrographic signals over triangulation stations of the 1932 scheme, plotted on the North American 1927 adjusted datum. ✓

Shoreline and signals from Signal TOP to Plaskett Rock were transferred from Topographic Sheet, Field Letter "E", 1934; and shoreline and signals from Plaskett Rock to Signal BIN were transferred from Topographic Sheet, Field Letter "D", 1934. ✓

DATES OF SURVEY: Work on this sheet began on August 5, 1935, and was completed on August 10, 1935. ✓

TIDAL REDUCERS: Tidal reducers for the work on this sheet were obtained from Monterey Bay and from San Simeon Bay portable automatic tide gages. ✓

For further information on this subject the reader is referred to the Season's Tidal Report. ✓

JUNCTIONS: The north end of this sheet joins Wire Drag Sheet, Field No. 4, 1935. The line is continued from Field Sheet No. 4, (H. 5742) 1935, to this sheet. On the south this sheet joins Wire Drag Sheet, Field No. 6, 1935, and the overlapping junction is more than sufficient.

The overlap of drag lines at the beginning and ending of lines on this sheet are good.

GROUNDINGS:

Pos.No. Letter Day	Latitude & Longitude	Grounded Effective Depth	Least Sounding Depth	Cleared Effective Depth	Depth Plotted	Remarks
	° ' "	feet	fms	feet	fms	
35 A	*35 56.5 121 29.72	77 ✓	13 5/6 ✓		not plotted	*Same grounding as on Pos. 45 A ✓
35 A	*35 56.49 121 29.53	65 ✓				*Same grounding as on Pos. 45 A ✓
45 A	35 56.5 121 29.72	76 ✓	12 1/2 ✓	45 ✓	12 1/2 ✓	
45 A	*35 56.49 121 29.53	64 ✓	11 1/2 ✓	45 ✓	11 1/2 ✓	*See Note 1 below ✓
3 B	35 56.78 121 29.3	45 ✓	9 1/8 ✓	31 ✓	7 1/2 ✓	Upright length plotted ✓
30 B	35 54.56 121 28.99	44 ✓	5 1/8 ✓	26 ✓	5 1/6 ✓	
18 C	*35 53.25 121 28.32	55 ✓	7 ✓	30	7	*See Note 2 below ✓

*Note 1. This ground was caught on an inclined section between uprights set at 64 and 70 feet. Because of this inclined section the 11 1/2 fathom sounding is plotted in lieu of the 64 feet effective depth.

*Note 2. This grounding was cleared on Wire Drag Sheet, Field No. 6, 1935.

COMPARISONS WITH PREVIOUS SURVEYS:

The following comparisons are based on sheets H-5641 and H-5651.

The 12 1/2 fathom sounding in Latitude 35° 56'5, Longitude 121° 29'72, is in the vicinity of 23 fathoms.

The 11 1/2 fathom sounding in Latitude 35° 56'49, Longitude 121° 29'53, is in the vicinity of 17 fathoms.

Where the upright length of 7 1/2 fathoms is plotted in Latitude 35° 56'78, Longitude 121° 29'30, is at the outer edge of a kelp patch. Surrounding soundings show indication of a shoal.

The 5 1/6 fathom sounding in Latitude 35° 54'56, Longitude 121° 28'99, is in the vicinity of 16 fathoms. Shoal marked by heavy kelp.

The 7 fathom sounding in Latitude 35° 53'25, Longitude 121° 28'32, is in the vicinity of 16 fathoms.

COMPARISONS WITH CHART NO. 5302:

*The 56^{1/2} shown on
chart No. 5302
(Feb. 25, 1936)
Issue.*

All groundings shown on this survey are not charted on Chart No. 5302, date of issue March 15, 1935.

PERSONNEL AND LAUNCHES:

Lieutenant-Commander G. C. Jones was in charge of this work, also in charge of the Guide Launch. Lieutenant (j.g.) W. J. Chovan was in charge of the End Launch.

The launches used were the chartered launches FLORENCE (Guide Launch) and POINT REYES (End Launch)

Respectfully submitted,

C. J. Beyma.
C. J. Beyma,
Aid,
C. & G. Survey.

Forwarded, approved:

F. H. Hardy
F. H. Hardy, Chief of Party,
Commanding Ship GUIDE.

LIST OF SIGNALS
to accompany
WIRE DRAG SHEET FIELD NO.5
1935

Triangulation

<u>Hydrographic Name</u>	<u>Location</u>
INNER	Inner rock Cape San Martin, 1932
MID	Middle rock Cape San Martin, 1932
OUT	Outer, 1932
KETT	Plaskett Rock, 1932.
CONE	Mansfield Cone, 1932
WILD	Wild, 1932
IRK	Kirk, 1932

Topographic
Located on Topographic Sheet Field Letter "E", 1934

TOP	NUN
CAPE	LIP
SIN	KID
OX	

Located on Topographic Sheet Field Letter "D", 1934

FN	DOG
DOE	GET
BAD	FAN
MY	EAT
BOB	COP
POT	BIN

STATISTICS
TO ACCOMPANY
WIRE DRAG SHEET NO. 5

Date 1955	Day Letter	Volume	Statute Miles	Positions	Drag Length Feet	TENDER	
						Soundings*	Positions
Aug. 5	A	1	5.7	45	9000	2	2
6	B	1	3.5	30	6000	8	8
10	C	1	7.5	46	6000-9000	3	3
Total			16.7	121		13	13

AREA 11 Square Statute Miles.

STATEMENT
to accompany
WIRE DRAG SHEET FIELD NO. 5
1935

The plotting and protracting of buoy positions were done by C. A. Kester, Drag Master.

The drag areas were subdivided and inked by Ensign C. J. Beyma.

The completed smooth sheet has been inspected and is approved.

F. H. Hardy

F. H. Hardy,
Chief of Party, C. & G. S.,
Commanding Ship GUIDE.

HYDROGRAPHIC SURVEY NO. 5943 W.D.

Smooth Sheet Yes

Boat Sheets 2 Yes

Sounding Records Yes Vols. 3

Descriptive Report Yes

Title Sheet Yes

List of Signals See D.R.

Landmarks for Charts (Form 567) No

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service No
(Circular Nov. 30, 1933)

Remarks _____

Field Records Section (Charts).

HYDROGRAPHIC SHEET NO. **H5943**

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	...134.
Number of positions checked	...10.
Number of positions revised0
Number of soundings recorded	...13
Number of soundings revised0
Number of signals erroneously plotted or transferred0

Date: *March 12, 1936*

Verification by *J. A. M. Cornette*

Time: *3 hrs.*

Review by *S. Risigari*

Time: *7 hrs.*

GEOGRAPHIC NAMES

Survey No.

H5943

Name on Survey

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. Quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
<u>CAPE SAN MARTIN</u>	5302								1
<u>MILL CREEK</u>	5302								2
<u>CALIFORNIA</u>									3
									4
									5
									6
									7
									8
									9
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									27

Checked and corrected by
E. E. Hogan on 3/2/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	}	No. H 5943 W.D. No. T	{	received Feb. 25, 1936 registered Feb. 29, 1936 verified reviewed approved
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This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

C. K. Groeth

Mar. 2, 1936.

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 9, 1936.

Division of Hydrography and Topography:

✓ Division of Charts: **Attention: Mr. E. P. Ellis**

Tide Reducers are approved in
3 volumes of sounding/records for
and wire drag

HYDROGRAPHIC SHEET 5943

Locality **Cape San Martin to Mill Creek, California coast**

Chief of Party: **F. H. Hardy in 1935**

Plane of reference is **mean lower low water reading**

2.5 ft. on tide staff at **Monterey**

12.5 ft. below B.M. **3**

2.2 ft. on tide staff at **San Simeon**

20.9 ft. above B.M. **1**

Height of mean high water above plane of reference is **4.6 feet at Monterey; 4.5 feet at San Simeon.**

Condition of records satisfactory except as noted below:

Ham

Acting Chief, Division of Tides and Currents.

Verifier's Report on H-5943 (Wire Drag)

Records: Records conform with specifications. ✓

Drafting: Drafting is excellent. ✓

Junctions: This sheet is joined on the north by H-5942 (WD). This junction was made and is satisfactory. The sheet to the south has not been received. ✓

Control: Shoreline and topographic signals are from T-4878 and T-4879. ✓

Remarks: Shoal soundings obtained were transferred to H-5651. ✓
Pos. 5a* is plotted as 11 fathoms although the effective depth at grounding was 64 feet. This was in a sloping section. ✓
Lat. 35-55.5, Long. 121-29.7

* See note page 2
Doc. Rept. ②

March 12, 1936.

Submitted,

J. A. McCormick

J. A. McCormick.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5943 W.D.(1934) FIELD NO. 5

Cape San Martin to Mill Creek, California Coast, Cal.

Surveyed in August 1935

Instructions dated May 31, 1934 (GUIDE)

Wire Drag with Hand Lead Soundings. Dual Control on Shore Signals.

Chief of Party - F. H. Hardy.
Surveyed by - G. C. Jones.
Protracted by - C. A. Kester.
Subdivision of wire dragged area by - C. J. Beyma.
Inked by - C. J. Beyma.
Verified by - J. A. McCormick.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual and S. P. 118.

The Descriptive Report is clear and comprehensive and adequately covers all matters of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey comply with the instructions for the project. This survey is well executed and such matters as overlaps, proper speed, and determination of lift have been given careful attention.

3. Shoreline and Signals.

The shoreline and topographic signals originate with T-4878 (1934) and T-4879 (1934).

4. Junctions with Wire Drag Surveys.

The junction with H-5942 (1935) on the north is satisfactory.

The junction with Field Sheet No. 6 (1935) on the south will be considered in the review of that sheet.

5. Comparison with Latest Hydrographic Surveys.

H-5641 (1934), H-5651 (1934).

The present survey covers portions of the above hydrographic surveys and the effective drag depths are consistent with the depths shown on these surveys.

6. Comparison with Chart No. 5302 (New Print dated Feb. 25, 1936).

None of the soundings on the chart conflict with the effective depths of the drag.

The 5 fathom sounding in latitude $35^{\circ}54.56'$, longitude $121^{\circ}28.99'$ comes from the present survey and was charted from advance information in Chart Letter No. 744 (1935). The actual depth is $5\text{-}1/6$ fathoms.

7. Field Plotting.

The plotting, protracting, and subdivision of dragged areas were well done.

8. Results of Survey.

a. Shoals discovered and clearance depths obtained.

The shoals noted below fall on H-5651 (1934) in greater depths as follows:

- (1) The $7\text{-}1/2$ fathom grounding in latitude $35^{\circ}56.78'$, longitude $121^{\circ}29.3'$ in depths of 12 to 16 fathoms. Cleared by 31 foot drag.
- (2) The 11 fathom shoal in latitude $35^{\circ}56.49'$ longitude $121^{\circ}29.52'$, in depths of 17 fathoms. Cleared by 45 foot drag.
- (3) The 12 fathom shoal in latitude $35^{\circ}56.5'$ longitude $121^{\circ}29.7'$, in depths of 22 to 26 fathoms. Cleared by 45 foot drag.
- (4) The $5\text{-}1/6$ fathom shoal in latitude $35^{\circ}54.55'$, longitude $121^{\circ}29'$ in depths of 16 fathoms. Cleared by 26 foot drag.
- (5) The 7 fathom shoal in latitude $35^{\circ}53.26'$, longitude $121^{\circ}28.3'$, in depths of 15 to 18 fathoms. Not cleared on this sheet, but a note in the Descriptive Report, page 3, states grounding was cleared on W.D. sheet Field No. 6. This sheet has not yet been received in the office.

b. Effective Depths.

The effective depths of the various drag strips are sufficient to insure safety to surface navigation in the normal steamer lanes. However, from a study of the depths on H-5651 (1934), it would appear that the drag could have

been set to a greater depth over the shoalest portion of the ridge in latitude $35^{\circ}54.42'$, longitude $121^{\circ}28.8'$. The depths here range from 11 to 15 fathoms, but the effective drag depth is only 26 feet. It is probable however, that the kelp in this area prevented setting the drag deeper.

c. Splits and Insufficient Overlaps.

No splits exist and overlaps are good.

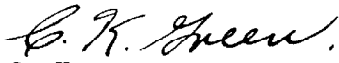
9. Additional Field Work Recommended.

No additional work is recommended.

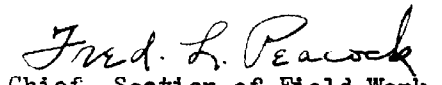
10. Reviewed by - G. Risegari, Mar. 21, 1936.


Inspected by - A. L. Shalowitz.

Examined and approved:


C. K. Green,
Chief, Section of Field Records.


L. O. Robert,
Chief, Division of Charts.


Fred. L. Peacock,
Chief, Section of Field Work.


G. H. Glade,
Chief, Division of H. & T.